VRSEK, J., inz.; BENES, F., inz., CSc.; SZABO, A., inz.; STENO, J., inz.

Problems of continuous casting of low-carbon steels. Hut listy 18 no.11:773-779 11:63.

1. Vyzkumny ustav hutnictvi zeleza, Praha (for Vrsek and Benes)
2. Svermove zeleziarne, Podbrezova (for Szabo and Steno).

BENES, F., ins., CSc.; VRSEK, J., inz.; MAKARJEV, P., inz.; OLEJ, J., inz.

Quality characteristics and structure of low-carbon steels in continuous casting. Hut listy 18 no. 12:850-858 B: 12.

- 1. Vyzkumny ustav hutnicivi zeleza, Praha (for all except Olej).
- 2. Svermove zeleziarne, Podbrezova (for Olej).

ACCESSION NR: AP4026363

z/005!5/64/014/003/0189/0195

AUTHOR: Benen, F.; Soska, F.

TITLE: Influence of a magnetic field on a vibrating piezoelectric medium

† .

SOURCE: Chekhoslovatskiy fizicheskiy shurnal, v. 14, no. 3, 1964, 189-195

TOPIC TAGS: regnetic field, harmonic oscillator, dipole, piezoelectric crystal, dipole

ABSTRACT: The idea of influencing the frequency of a piezoelectric crystal by a stationary electric field for the purpose of standardization was first discussed by Vilbig (Lehrbuch der Hochfrequenztechnik II, Leipzig, 109, 1958). If an attempt is made to observe a vibrating piezoelectric medium as a system of dipoles (harmonic oscillators) during a qualitative description of this effect (and only in first approximation), it is found that an electric field polarizes this system and deflects the trajectory of the oscillator somewhat from the original direction but neither bends nor changes the directional force of the oscillator. However, since the resonance frequency of the oscillator changes (obviously due to the influence of the interaction between the dipoles of the system), the directional force k, and with it the frequency ω_0 , must also change according to the equation

Card 1/2

ACCESSION NR: AP4026363

$$\omega_0^2 = \frac{k}{n}$$

The influence of a magnetic field on a system of harmonic oscillators is manifested in another way. Its influence causes not only another type of interaction between the oscillators (and thus a possible change in the material constants) but also a change in the frequency of an oscillator which has been produced by the curvature of its trajectory. The author studies the influence of a magnetic field on the frequency of piezoelectric crystals in the above sense. Orig. art. has: 3 figures and 20 equations.

ASSOCIATION: Department of Physics, Technical University, Liberec

SUBMITTED: 10Jun63

DATE AIR: 15Apr64

ENCL: 00

SUB CODE: MM

NO REF BOV: 001

OTHER: 005

Card 2/2

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Shostakovskii's balsam -- a new wide-spectrum drug. Cas.lek. cesk. 99 no.1:25-27 3 Ja '60.

1. Statni ustav pro kontrolu leciv, Praha, reditel ins. Jan Burianek.

(POLYVINYLS pharmacol.)

(ANTISEPTICS pharmacol.)
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BENES, I.; BURIANEK, J.; CIFKA, J.

Determination of witamin Bl2 with the aid of radioactive carbon C-14. Cesk. farm. 11 no.6:281-286 J1 '62.

1. Statni ustav pro kontrolu leciv, Praha Ustav jaderneho vyzkuma CSAV.

(CARBON radioactive) (VITAMIN Bl2 chem)

BENES, J.

Application of the theory of random processes in geology. p. 461.

SIAFOPROUDI OBZOR. (Ministerstvo vseobecniho strojirenstvi, Ministerstvo, spoju a Ceskoslovenska vedecko-technicka spolecnost, sekce elektrotechnika) Praha, Czechoslovakia, Vol. 20, No. 7, July 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November, 1959.

Ur.cl.

BENES, J.

"June, Water Purity Month."

p. 241 (Nova Technika, No. 6, 1958, Praja, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) IC, vol. 7, No. 9, September 1958.

BENES, JIR;

CZECHOSLOVAKIA/Radio Physics - Application of Radiophysical Methods I-10

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11452

Author : Bednarik Josef, Benes Jiri

Inst : Not Given
Title : Color Television

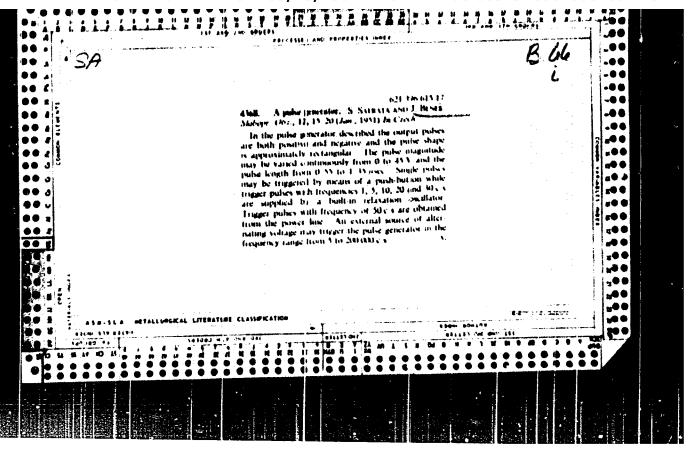
Orig Pub: Slaboproudy obzor, 1957, 18, No 7, 495-508

Abstract: Brief examination of the requirement of a system of colour

television. Description of NTSC and TSC systems are given. Properties of both systems are examined from the point of

view of further development.

Card : 1/1



BENES, J.

ne ne

Development of the Mechanized Production Process in Czechoslovalia. p. 476 (ZA SOCIALISTIC/OU VEDU A TECHNIKU, Vol. 3, No. 11, Nov. 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

BENES, J.

For a systematic development of automatization. p. 505. SIABORPROUDY OBZOR. PRAHA. vol. 11, no. 12, Dec. 1953.

SOURCE: East European Accessions List (EEAL), IC, Vol. 5, no. 3, March 1956 .

GENES, J.

Fighting bureaucracy in preparing the Plan of Technical and Organizational Operations. p. 469. (STROJIRENSKA VYROBA, Vol. 4, No. 11, Nov 1956, Fraha, Ozechoslovakia)

SD: Monthly List of East European Accessions (EEAL) 10, Vol. 6, No. 12, Dec 1957. Uncl.

PENESH. Yu. (Praga).

Some problems in the development of automatization in Grechoslovakia. Avtom.i telem. 17 no.11:923-57 H 156. (MLEA 9:12) (Crechoslovakia--Automation) (Automatic control)

BENES, J.

Pasic principles and problems of color television. p.302. (Technicka Praca, Vol. 9, No. 5, May 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) 18. Vol. 6, No. 9, Sept. 1957. Uncl.

BENES, J.

Technical-information service in the Netherlands. Tr. from the Czech. p. 10. (Ujitok Lapja, Vol. 9, No. 7, May 1957, Budapest, Hungary)

50: Monthly List of East European Accessions (EEAL) IC, Vol. 6, No. 8, Aug 1957. Uncl.

BENES, J.

"Substance of the correlation method of determining the operation of linear regulated systems with changing parameters." P. 396.

SLABOPROJDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 20, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

ZEMAN, K.; BENES, J.

Autoradiography of B-hemolytic streptococci with labelled P32. Comb. epidem. 12 no.1:31-35 Ja '63.

1. Ustav epidemiologie a mikrobiologie v Praze — Radiologicka dozimetrie UJV CSAV.

(RADIOAUTOGRAPHY) (PHOSPHORUS ISOTOPES) (STREPTOCOCCUS)

(SULFUR ISOTOPES)

CZECHOSLOVAKIA 25 Sep 63

BENES, J.

Prof, Dr, Canon, bade farewell to the delegation of Czechoslovak churchmen departing for the Vatikan Council, 25 September.

Lidova Demokracie, Prague, 26 Sep 63, p 1.

(1)

16.6200 (1031, 1329)

32586 8/569/61/003/000/004/011 D201/D305

13,2941

Mékolny, J., Professor, Doctor of Technical Sciences, AUTHORS: Engineer, and Benbs, J., Doctor of Technical Sciences,

Candidate of Technical Sciences, Engineer

TITLE:

Joint stability and regulation quality control and

its application in statistical dynamics

SO URCE:

International Federation of Automatic Control. 1st Congress, Moscow, 1960. Statisticheskiye metody issledovaniya. Teoriya struktur, modelirovaniye, terminologiya, obrazovaniye. Moscow, Izd-vo AN SSSR, 1961,

106 - 124

TEXT: The authors show the possibility of supplementing the Fouth-Shura reduction [Abstractor's note: Shura is a transliteration.] of the denominator of the transfer function by an analogous reduction of the numerator of the transfer function and of using the coefficients thus obtained for simple evaluation of the magnitude quadrature area of the impulse function and of the quadrature area of reaction to the unit step without determining by calculations the Card 1/43

32586

S/569/61/003/000/004/011 I201/D305

Joint stability and regulation. ...

values of high order determinants. To do so two methods of reducing the numerator were developed and the possibilities of their use for minimizing the quadrature areas were investigated. The method suggested may also be applied to evaluate the r.m.s. error of the control circuit acted upon by a random stationary process. A method of approximate evaluation of the rms. error is suggested, for which the Laguerre coefficients are used, as determined for each case of realization of a random process by means of an orthogonal analyzer using the Laguerre modulators. This method is stated to have been successfully applied at the Institute of Information and Autonation theory of the Czechoslovak Academy of Sciences for solving on the digital computer "Ural" the average value $M(\alpha_3)$ and the approximation to standard deviation $\sigma_{A}(\alpha_3)$ of the input magnitude of a nonlinear component of the follow-up system in Fig. 1, for separate segments of realization of $a_1(t)$ of the random input process of the follow-up system. The output of the non-linear element was $\alpha_A = L$ sign $\alpha_{\mathfrak{Z}}$ and the transfer function Card 2/43

325/16 8/569/61/003/000/004/011 D201/D305

Joint stability and regulation ...

 $K_1G_1(p) = \frac{5}{1 + 0.1p}$ and $K_2G_2(p) = \frac{2}{1 + 0.2p}$.

A nethod of fast automatic computation by a two-channel iterative process was also devised. A discussion followed in which I.Ye. Kasakoc took part. There are 2 figures and 5 references: 3 Sovietbloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: N. Wiener, Extrapolation, interpolation and smoothing of stationary time series, New York, The Technology Press of the M.I.T. and John Wiley a. S., 1949; R.C. Botton, Jr. The analysis of non-linear control systems with random inputs, Proc. of the symposium of non-linear circuit analysis. New York, Polytechnic Institute of Brooklyn, 1953, p. 369 - 391.

ASSOCIATION: Higher School of Transport Machine Construction, Prague (J. Nékolny); Institute of Information and Automation Theory, Prague (J. Beneš)

Card 3/43

HENES, J.

Correct breakdown by tractor brigade of the state plan for operation of tractors. p. 458.

MECHANISACE ZEMEDELSTVI. Praha. Vol. 1, no. 21, Dec. 1951.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

BENES, J.

Calculating requirements of machinery and tractor equipment for 1955. p. 9 MECHANISACE ZEMEDELCTVI. Vol. 5, No. 1, Jan. 1955

SO: Monthly East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

BENES, J.

Research problems in the construction of a machine for harvesting hops. p. 165.

SBORNIK RADA MECHANISACE A ELEKTRIFIKACE SEMEDELSTVI A LESNICTVI Vol 28, no. 2/3, Sept. 1955
Czechoslovakia

SOURCE: EEAL, Vol, 5, no. 7, July 1956

BENES, J.

Docation of sites for storing timber in a forest. D. 151. SBYRMIK, RADA C: SPISY FAKULTY LESNICKE, Brno, No. 3, 1955.

Si: Monthly List of East Suropean accessions, (EMAL), LC, Vol. 5, No. 6 June 1956, Unel.

Bisiis J.

Relationship between lumber transportation and forest-road building. p. 299.

SHORNIK. LESNICTVI. (Ceskoslovenska akademie zem.:delskych ved.) Praha, Czechoslovakia, Vol. 4, no. 5, May 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959 Uncl.

BENES, J.

Mechanism of the chloramine-B reaction with bis (2-chloroethyl) sulfide. Coll Cz Chem 28 no. 5: 1171-1176 My 163.

1. Militarakademie "A. Zapotocky", Brno.

BENES, J.

Action mechanism of antioxidants in the exidation of polyprocylene. Coll Cz Chem 29 no.2:363-373 F '64.

1. Research Institute of Macromolecular Chemistry, Erno.

ALLERGOLOGY

CZECHOSLOVAKIA UDC 616.28-008.55-039.31-02--97.2(613.262)

BENES, J.; PREROVSKY, K.; REHUREK, L.; KASE, F.; Internal Department Krajska Eospital (Interni Odd. Krajske Nemocnice), Usti nad Labem, Head (Vedouci) Dr O. DUB; Otolarygological Dept. Krajska Hospital (Otolaryngologicke Odd. Krajske Nemocnice) Usti nad Labem, Head (Vedouci) Dr K. ZEMAN; Krajska Transfusion Station (Transfuzni Stanice), Usti nad Labem, Head (Vedouci) Dr J. MATOUSEK.

"Food Allergy to Garlie and Signs of Meniere's Disease."

Prague, Casopis Lekaru Ceskych, Vol 105, No 31, 9 Aug 66, pp 825 - 827

Abstract /Authors' English summary modified 7: 'A case of Meniere's disease is described; the classical manifestation of this disease is food allergy to garlic. The allergic basis was confirmed by the leukopenic, thrombopenic, and repeated exposure test. 2 Figures, 5 Western, 2 Czech references. (Manuscript received Jan 66)

1/1

BLNES, J.

CZECHOSLOVAKIA / Inorganic Chemistry. Complex Compounds.

C

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 63995

Author : Koutnik Viler, Benes Jan Inst : Not given Title : The Extraction of P2S5

Orig Pub: Chem. prumys1, 1958, 8, No 2, 81-82

Abstract: A simple method was worked out for the extraction of P2S5 of sufficient purity with a common laboratory installation, and the most favorable conditions of the reaction were established. The maximum output in the case of the application of pure a-chloronaphthalene under optimum conditions consisted of 65% (in conversion to white P).

Card 1/1

15

CZECHOSLOVAKIA / Inorganic Chemistry. Complex Compounds.

C

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 26700.

Author : Koutnik, V. and Benes, J.

Inst : Not given.

Title : The Bromination of Aluminum.

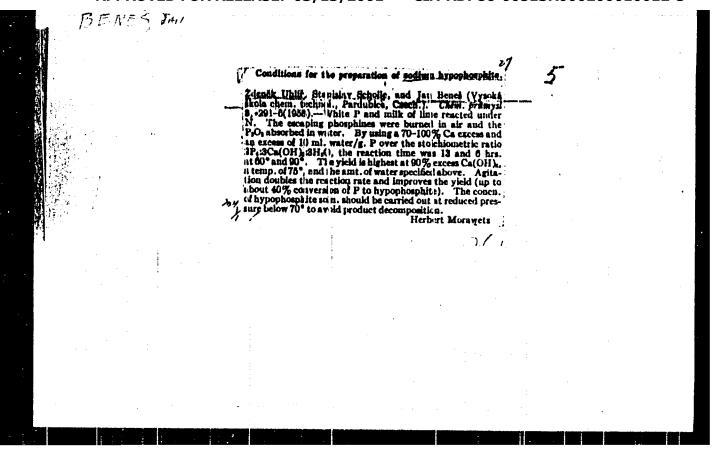
Orig Pub: Chem Prumysl, 8, No 4, 187-188 (1958) (in Czech

with English and Russian summaries).

Abstract: The authors note that earlier methods for the pre-

paration of AlBr3 frequently give a product of insufficient purity and very low yields. The proposed method for the synthesis of AlBr3, in the opinion of the authors, is devoid of these drawbacks. A small amount of AlBr3 is placed in a flask and covered with Al shavings, the flask is flushed out with nitrogen, and the contents are

Card 1/2



Czechoslovakia 1 1 1 2 = 1 جا€خ€ا Benes, J. Sticha, J.
Illian : Isolation of Vanadium : Isolation of Vanadium Pentoxide from Alkaline S:lutions 361 . Max : Chem. rrumysl, 1954, 5, No 7, 350-352 notified at Alkaline solutions obtained on processing of 'V-ruw materials can be subjected to hydrolysis in acid medium, to 7-adis, only in the absence of large amounts of [Al-O], Fe203, or Ma20rO. The presence of sulfates of alkali Imetals, even at high concentrations, does not hinder the hydrolysis. Alkaline solutions can be processed directly to NHLVO3 (I) by an addition of recrnical NHLO1. Imporities ac not interfere with precipitation of I, but increase expenditure of Nh₂Cl. Fure I is obtained by two reprecipitations. Decomposition of I is conducted at 220° without apprecible reduction of V5+. Furity of product obtained by decomposition 7 nd 1/2

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كالمبايين بتانيسك	i of I, reaches 59.9% (on the exceeds the jurity of the problem Bioliography 8 references.	たがい うもこ へんもん しゃと こうしゅ	
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CZECHOSLOVAKIA / Physical Chemistry. Thermodynamics.

Thermochemistry. Equilibris. Phase Changes. Physico-chemical Analysis.

В

Abs Jour : Rof Zhur - Khimiya, No 12, 1959, No. 41595

Author : Scholle, Stanislav; Uhlir, Zdenek;

Benes, Jan.

Inst : Not given

Title : Solubility Curve of a NaI-NaBr-H20 System

Orig Pub : Chem. listy, 1958, 52, No 6, 1191-1192

Abstract : By a "wet residue" (Schreinemacher's)

method, the solubility in a NaI-NaBr-H2O system at 25° was studied. The solubility curvo was constructed on the basis of tabulated data. The region of saturated

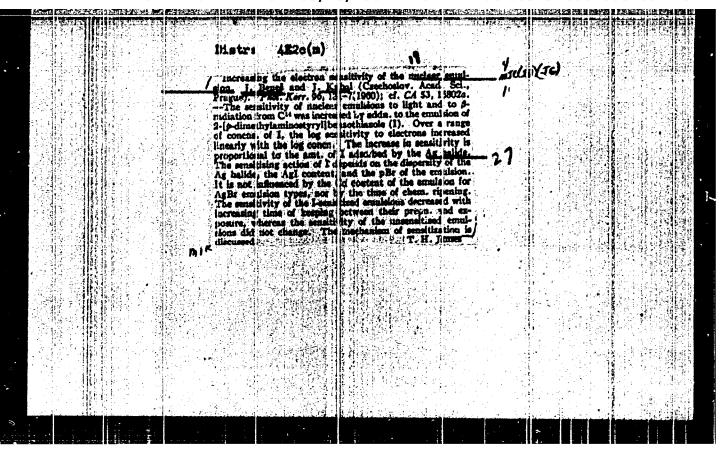
solutions in equilibrium with the solid solutions of Na (I, Br). 2 H20 was found.

-- V. Ruzicka

Card 1/1

COUNTRY : CZECHOSLOVAKIA Physical Chemistry. Thermodynamics. Thermochemistry: Equilibria. Phase Transitions. CATEGORY ABS. JOUR. : RZKhim., No. 1 1960, No.1,52 AU'THOR : Scholle, S.; Uhlir, Z.; Benes, J. INST. TITLE : Solubility Curve in the System NaI-NaBr-Ho0 : Collect. Czechosl. Chem. Communs, 1959, 24, No 3, 987-983 ORIG. PUB. ABSTRACT : No abstract See RZhKhim., No 12, 1959, No 41595... *Physicochemical Analysis CARI): 1/1

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010012-5



CZECHOSLOVAKIA

BENES, J.

Military Academy "A. Zapotocky," Brno

Prague, Collection of Czechoslovak Chemical Communi-cations, No 5, 1963, pp 1171-1175

"Towards the Mechanism of the Reaction of Chloramine B with Bis(2-Chlorethyl)sulfide."

BENES, J.; LINTNER, L.

Fossibilities of chemical dosimetry in clinical practice.
1. Estimation of relative deep doses. Cesk. rentgen. 18 no.2: 126-132 Mr.*64.

1. Onkologicke oddeleni fakultni nemocnice v Praze 10.

SZILAGYI, Andras; BENES, Janos; BALOGH, Jozsef

Forum of trade unionists. Munka 8 no.12:12 D '58.

i. Wilhelm Pieck Vagon- es Gepgyar szakszervezeti bizottsaga elnoke (for Szilagyi). 2. Ipari Robbanoagyaggyar szakszervezeti bizottsagi elnoke (for Benes). 3. Allami Mezogazdasagi Gepallomas szakszervezeti bizottsagi elnoke, Cegled (for Balogh).

BENES J.; CHODOUNSKY, Z.; PAC'TOVA, M.

Possibilities of using solutions of barium chloride and zinc chloride instead of lead glass. Cesk. rentgen. 18 no.1:59-61 Ja 64.

1. Onkologicke oddeleni fakultni nemocnice v Praze 10; zast. vedouciho: MUDr. L. Lintner.

*

Radiology

CZECHOSLOVAKIA

1/1

ZICHA, B.; BENES, J.: Veterinary Research Center (Veterinarni Vyz-kumne Stredisko), Prague - Motol

"Damage Caused to Pyridino Nucleotides in an Irradiated Organism."

Prague, Veterinarni Medicina, Vol 13, No 2, Feb 67, pp 107-118

Abstract /Authors' English summary modified 7: Changes caused by an irradiation dose of 42,000 r to NAD(nicotinamide adenine dinucleotide) and to NADH2 (dihydronicotinamide adenine dinucleotide) were investigated in vitro. Fluorescence maximum of NAD decreases in anaerobic conditions, in aerobic conditions there is little change. The amount of pyridine nucleotides in rat liver decreases after a whole body dose of 1400 r. The irradiated liver maintains its normal reduction capacity within 15% for 3 hours after exposure. The total level of pyridine nucleotides in isolated mitochondria of rat liver also decreases after an irradiation dose of 1400 r. However, the mitochondria maintain their ability to transfer H-proton. 8 Figures, 5 Tables, 31 Western, 2 Czech, 1 Japanese references. (Manuscript received 3 May 65).

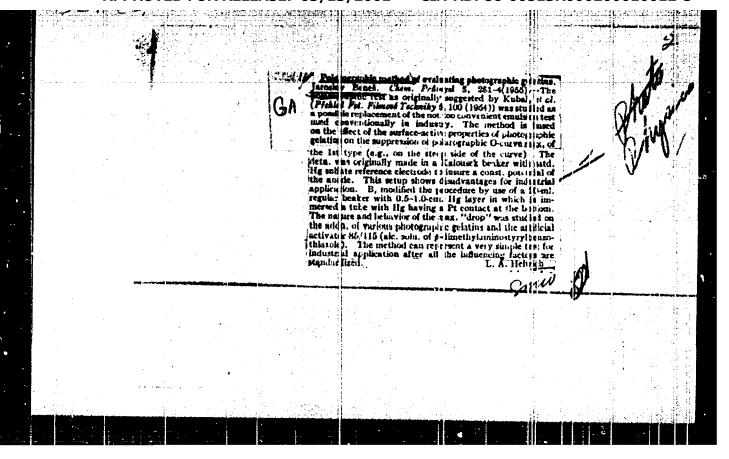
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1, 1	mabeton, Prague.				

Benes, J.

Polarographic study on the reduction of molybdate ions in a solution of sulfuric acid in the presence of hydrogen peroxide. p. 227. CHEMICKE ZVESTI Vol. 9 no. 5 May 55

Vol. 9, no. 5, May 1955.

SO: Monthly List of Bast European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.



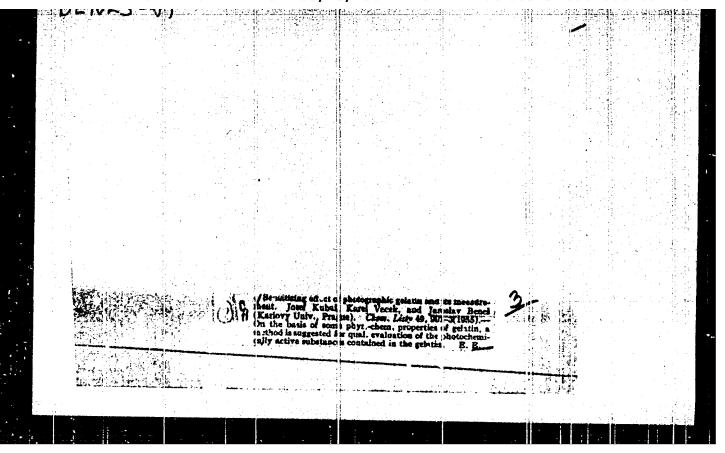
Benes, J.

Contribution to the polarography of molybdenum. p. 283

Vol. 9, no. 5, May 1955. CHEMICKE ZVESTI

SO: Monthly List of East Muropean Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010012-5



BENES, T.

Category: Czechoslovakia/Fitting Out of Laboratories. Instruments,

Their Theory, Construction and Use.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 31192

Author : Benes Jaroslav
Inst : not given

Title : Photocolorimeters of Czechoslovak Manufacture

Orig Pub: Chem. prumysl., 1956, 6, Nc 7, 292

Abstract: It was found that results of analytical determinations carried out by using a photocolorimeter of Czechoslovak manufacture (RZhKhim, 1956, 65423; 1957, 1351) are practically identical with those secured by means of a Khiran / transliteratel / photocolorimeter. A defect of the former is the non-linear shape of calibration

curves, which complicates calibration.

Card : 1/1

-30-

RENES, I

Category: Czechoslovakia/Analytical Chemistry - Analysis of inorganic G-2

substances.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 31003

Author : Henes Jaroslav Inst : rot given

Title : Effect of Chlorides on Determination of Eron in Gelatin

Orig Pub: Chem. zvesti, 1956, 10, No 8, 525-527

Abstract: On investigation of 66 varieties of gelatin it was found that no correlation exists between the content of Cl and Fe. Cl was determined in gelatin hydrolyzate by potentiometric titration with AgNO2, and the Fe -- colorimetrically, with NH,SCN, in the ash obtained on combustion of the sample. To prevent volatilization of Fe in the presence of Cl, the gelatin should be treated, prior to combustion, with concentrated HNO3 (about 1 ml/g).

Vysoka Skola Chem. Jech., Pardubrie, 'ard: 1/1 -:18- Czech. Card : 1/1

BENES, J.

Structural viscosity of gelatine solutions.

P. 271. (Chemicky Frumysl.) (Frahs, Czechoslavskia) Vol 7, No. 5, May 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, May 1958

USSR / Physical Chemistry; General Ptoblems. Colloidal Chemistry. B-14
Dispersion Systems.

Abs Jour : R:1 Zhur - Khimii, No 1, 1958, No 649

Author : Benes Yaroslav

Inst : Not Given

Title : Changes in Viscosity of Gelatin Solutions with Time

Orig Pub: Chem. prumusl, 1957, 7, No 6, 329-330 (Czech.)

Abstract: A study of viscosity (γ) changes of gelatin solutions was conducted at $j7^c$ within a period of one day. It was estab-

lished that γ and its rate of decrease fo not depend upon time. In the author's opinion, the decrease of γ is produced by a number of reasons; most of them are not as yet

established.

Card : 1/1.

BENES DWESTAY

CZECHOSLOVAKIA/Physical Chemistry - Colloid Chemistry, Dispersion Systems B-14

Abs Jour: Referat. Zhurmal Khimiya, No 2, 1958, 4046.

Author : Jaroslav Benes.
Inst :

Title : Influence of Concentration on Viscosity of delatin Solutions.

Orig Pub: Chem. prumysl, 1957, 7, No 7, 385-386.

Abstract: The influence of the concentration c on the viscosity of

of gelatin solutions in the range of c from 2 to 10% at 35 and 45° and under the pressure of 10 to 160 g per sq. cm was studied. The empiric equation η = A exp kc, where A and k are

constants, was found.

Card : 1/1

-9-

BENES, J.

CZECHOSLOVAKIA/Physical Chemistry - Kinetics. Combustion. Explosions. Topochemistry. Catalysis.

B-9

Abs Jour

: Ref Zhur - Khimiya, No 8, 1958, 24216

Author

: Benes, J., Weidenthaler, P.

Inst Title

: Mechanism of Reaction of Dichlorodiethyl Sulfide with

Sodium Thiosulfate.

Orig Pub

: Chem. zvesti, 1957, 11, No 6, 324-329

Abstract

: Study of the effects of dielectric constant and ionic force on velocity of the reaction of dichlorodiethyl sulfide (I) with Ma2S23. Change in the velocity of this reaction on change of dielectric constant and ionic force, shows that the stage which determines the velocity of the process is the dissociation of I.

Card 1/1

BENES, J.

TECHNOLOGY

Periodical CHEFICKY FRUMYSL. Vol. 8, no. 12, Feb. 1958

KOUTNIK, V.; MENES, J. Preparation of phosphorus pentasulfide. p. 81

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no, 3, March, 1959, Uncl.

BENES, S.

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of In- E organic Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67293.

Author : Benes J. C. Inst : Not given.

Title : Photometric Determination of Iron in Gelatin with

the Use of 2, 2'-Dipyridil.

Orig Pub: Chem. prumylsl, 1958, 8, No 2, 84-85.

Abstract: A 2gr. dried sample is carefully heated in a ceramic crucible until gases cease to evolve, the residue is mixed with concentrated HNO3(lcc HNO3//lgr. of sample), heated to remove HNO3, calcined at 450°, followed by the addition of 2cc of concentrated HNO3, evaporation to dryness, and the solution of the remainder in 50cc of 0.25 normal HCl. 5cc of 10% solution of NH2OH.H2SO4, 2M CH3COONa

Card 1/3

24

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of In- E organic Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67293.

Abstract: is then added to the 25cc of the obtained solution until pH becomes approximately 4, followed by the addition of 3cc of the 2, 2'-dipyridil 0.1% solution. After 30 minutes standing the sample is subjected to photometric test. The curve is calibrated against a solution of Mohr salt, containing 0.01 mgm. in 1cc of 0.25 normal HCl. Addition of HNO3 during the precipitation step (>1cc of concentrated HNO3/1gr. of sample) is necessary in order to eliminate losses arising from the presence of Cl in gelatin. The described method made it possible to detect low con-

Card 2/3

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of In- E organic Substances.

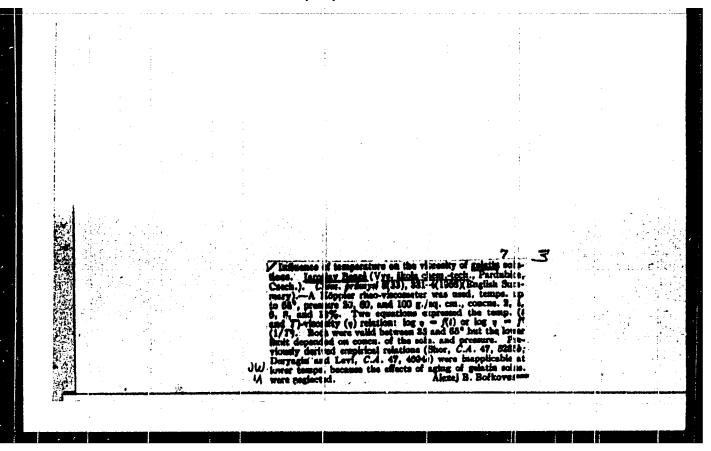
Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67293.

Abstract: centrations of Fe in different types of photoemulsions (0.0024-0.0069%) and in food gelatines (approx. 0.0070% Fe).

Card 3/3

25

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010012-5



CZECHOSLOV/KI//Nuclear Physics - Installations and Instruments.

Methods of Measurement and Research

Abs Jour : Ref Zhur Fizika, No 10, 1959, 21961

Author : Kubal, Josef; Benes, Jaroslav; Hrkal, Zbynek

List : Institute of Nuclear Physics, Czechoslovak Academy of

Sciences, Prague, Czechoslovakia

Title: : A Nuclear Emulsion was Prepared by the Ordinary Method

with a Weight Ratio of Silver Bromide in the Gelatine

Equal to 6.4.

Cri; Pub : Ceskosl. casop. fys., 1958, 8, No 5, 608-613

: The Cd2 ions were introduced in the form of CdPr2. The Abstract

chemical sensitizer used were diphenyl amine 2p-diphenyl amine styryl benzo thiazol. Plates with emulsion layer thicknesses of 35 and 70 microns were bombarded with alpha particles from Pe210, electrons, and visible light.

Card 1/3

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments. C Methods of Measurement and Research

Abs Jour : Ref Zhur Fizika, No 10, 1959, 21961

procedure of the development of the plates, the determination of the sensitivity, and the investigation of the particle tracks was standard. Experiment has shown that an increase in the contents of the Cd ions in the errilsion decreases the dimensions of the (rains, increases their homogeneity and densitivity. The magnitude of the grains was not measured directly and the influence of the Cd ions on the atracture of the emilsion was determined. from a change in the coefficient of contrast. The constrast coefficient, even with the CdBro content of one molar percent, was increased considerably and then remained constant. In the author's opinion, this indicated that an iso-dispersed phase has been reached. The sensitivity of the emulsion increased with the increasing concentration of cadaium ions. Thus, in irradiation with electrons from the decay of C1+, the sensitivity was

Card 2/3

- 10 -

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments. C Methods of Measurement and Research

Abs Jour : Ref Zhur Fizika, No 10, 1959, 21961

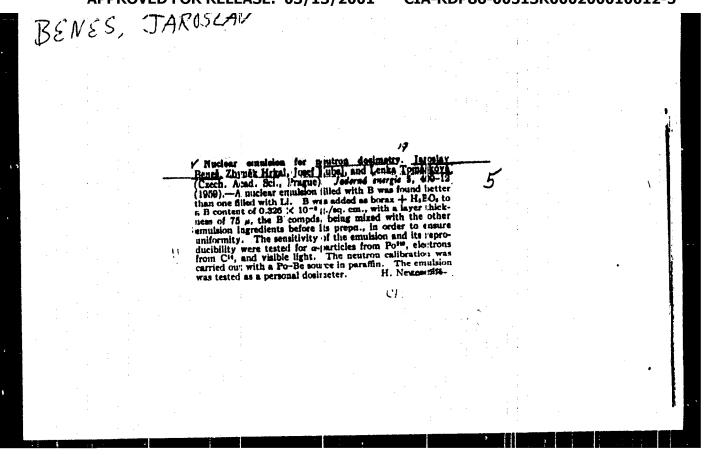
increased by 8% as the cadmirm ion concentration was increased to 5 molar percent. Some of the prepared emulsions were found to be sensitive to low-energy electrons. -- P.P. Sosenko

card 3/3

Section of the conditions have been determined for the preparation of Ca(H₂FG₂), and an appropriate of Ca(H₂FG₂), and for its converging to Name and an appropriate of Ca(H₂FG₂), and for its converging to Name and our suspension of Ca(H₂FG₂), and for its converging to Name and our suspension of Ca(H₂FG₂), and for its converging to Name and an appropriate of the Parameter of Ca(H₂FG₂), according to the equation of Ca(H₂FG₂), and the cause of the works of F. Duration of the reaction of the resulting I is filtered off. Yield of its above on the Casic of F. Conversion of I to II is effects in according with the equation Ca(H₂FG₂), Na₂Cu₂ = Na₂Cu₂ = Na₂Cu₂ + CaCO₃. To crystallage II the solution is evaluated in

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to FDT, is used as raw material for fer the 30 references I. Yelinek.	id stion of theseners ptilizers, bibliogra-
inter removal of excess Ga(20)g and cx to F5+, is used as row material for fer only 30 references I. Yellnek.	id tion of thesenerus
to FDT, is used as raw material for fer ship 30 references I. Yelinek.	id tion of thesenerus

CZECHOSLOVAKIA/Nuclear Physics - Installations and Instruments. Methods of Mensurement and Research. : Ref Zhur Fizika, No 12, 1959, 26714 Abs Jour : Kubal, Josef; Benes, Jaroslay; Hrkal, Zbynek Author : Institute of Muclear Roysics, Czechoslovak Academy, Inst of Sciences, Physics Institute Charles University Prague, Czechoslovakia : Effect of Cadmium Ions on the Properties of Nuclear Title Emulsions : Chekhosl. fiz. zh., 1958, 8, No 6, 658-664 Orig Pub : To obtain fine grain emulsions, a study was made of Abstract the slowing down and sensitizing action of ions of cadmium in the prepartion of nuclear emulsions. Their influence was estimated by a sensitometric method for the action of visible light and electrons. Card 1/1



CZECH/37-59-2-3/20

AUTHORS: Josef Kubal, Jarcslav Benes, Zbynek Hrkal

TITLE: On the Sensitivity and Regression of Silver Bromo

Iodide Nuclear Emulsions

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 2,

pp 133-140 (+ 1 plate)

ABSTRACT: The maximum possible addition of AgI to AgBr at 25 °C is 29 mol%. Large additions of AgI are unwanted for nuclear emulsions because they reduce the sensitivity (Ref 6). The analysis of Ilford G5 and Agfa Kc nuclear emulsions shows (Ref 7) that they contain small amounts of AgI. Besides sensitivity, the stability of the latent image is an important consideration for nuclear emulsions. The exact mechanism of regression is not well understood because many factors influence it. Several explanations have been put forward (Refs 8-13). No previous authors have studied regression as a function of the contents of iodide. The emulsions used for our experiments were prepared by a method described by the authors (Ref 14). The emulsions contained 2.8 mol% of Cd and between 0 and 8 mol% AgI. The sensitivity of the emulsions was tested

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010012-5"

with visible light, a-particles and electrons.

On the Sensitivity and Regression of Silver Bromo Iodide Nuclear Emulsions

measurement was repeated at least twice (see also Ref 14). The dependence of the sensitivity to visible light on the concentration of AgI is shown in Fig 1. shows the sensitivity of a non-sensitised emulsion, while Curve 2 shows that of a sensitised emulsion. The sensitivity increases with increasing concentration of AgI to 3 mol%, then decreases up to 5½ mol%, and afterwards increases again. From 4 mol%, γ decreases, which shows an increase in grain size from this concentration of AgI upwards. The same conclusion regarding grain size was reached from measurements with a-particles. sensitivity to electrons is an entirely different function of the concentration of AgI (Fig 2). Up to 3 molf the sensitivity is constant, it decreases somewhat to 62 molf and then again remains constant. For a-particles, the sensitivity increases up to 3 mol% while a further increase is disadvantageous because of the increased grain Regression was generally slowed down by the addition of AgI. Emulsions containing 1 or 3 mol% AgI behaved, from the point of view of regression, identically. The regression for visible light is relatively slow.

Card 2/4

CZECH/37-59-2-3/20

On the Sensitivity and Regression of Silver Bromc Iodide Nuclear Emulsions

A regression coefficient of 50 was achieved in an AgBr emulsion after 1.6 days, in an AgBr and AgI emulsion after 24 days. The regression for visible light was studied at 18 °C for 65 days. 18 °C for 65 days. Fig 3 shows the regression for an emulsion containing 1 mol% AgI. Sensitised emulsions show more regression of the latent image produced by visible light than non-sensitised emulsions. However, this apparently varies from sensitizer to sensitizer (Refs 10, 17). The regression for electrons is shown in Fig 4a, for a sensitised AgBr emulsion, for two temperatures: 180 and 4 oc. The same dependence for an AgBr + AgI emulsion is shown in Fig 4b. The higher temperature obviously increases the rate of regression. The regression for electrons in sensitised emulsions is slower than in non-sensitised emulsions. The same can be said for a-particles and this is shown in Fig 5. Hypersensitisation of nuclear emulsions is known from Refs 19-21. We have tried hypersensitisation by

Card 3/4

CZECH/37-59-2-3/20

On the Sensitivity and Regression of Silver Bromo Modide Nuclear Emulsions

triethanolamin (Refs 19-21) on AgBr + Agl emulsions and achieved a 10.6-fold increase in sensitivity to

electrons.

Card There are 7 figures, 3 tables and 21 references, of which 8 are Soviet, 9 English, 2 Czech and 2 French. 4/4

ASSOCIATION: Ústav jaderné fysiky ČSAV a Fysikálni ústav Karlovy university, Praha (Department of Physics, Charles University, Prague)

SUBMITTED: September 10, 1958

	n	Z/008/60/054/03/028/0 E073/E335	29	
AUTHOR:	Ben	es, Jaroslav		
TITLE:		ording of Electron Radiation by Photographic		ds
PERIODICA	L: (Chemicke listy, 1960, Vol 54, Nr 3, pp 302 -	319	
ABSTRACT:	Thi	s is a comprehensive review paper and the sub	ject	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mat	ter is dealt with under the following chapter	head	lings:
	1.		• • •	30 2
	2.			302
		2.1 Blackening curves		30 2
		2.2 Sensitivity of photographic emulsions		
		to the total effect of electron radiat	ion	304
		2.3 Range of wilidity of the reciprocal law	in	
		the photographic effect of electrons a	nd	5
		the mechanism of the action of electro	ns	
		on the photo emulsion		300
	3.	Photographic effects of individual electrons		307
	,	3.1 Nuclear enulsions		307
		3.2 Passage of electrons and other charged		
		particles through a photo emulsion lay	er	309
		3.3 Dependence of the distance of travel of		
		the electrons on their energies		311
Card1/2		3.4 Sensitivity of nuclear emulsions to		
-		individual electrons		312

Recorng	2/008/60/054/03/028/02% of Electron Radiation by Photographic Methods	
	4.1 Formation of the latent image in AgHal crystals during irradiation of a photographic emulsion by electrons 4.2 Properties of the latent image formed in photographic emulsions by electron radiation	3 3
	The review is based on published information, as)

The review is based on published information, as specified in the bibliography, which contains reference to papers published up to and including 1958. There are 132 references, 12 of which are Czech, 38 Soviet, 4 French, 6 German, 3 Swiss and 69 English.

ware 2/2

BENES, Jaroslav

Pretective dominetry of corpuscular radiation by a photographic method. Jaderna energie 8 no.1:15-20 Ja 162.

1. Dozimetricke oddeleni Jstavu jaderneho vyzkumu, Coskoslovensku akademie ved.

Z/038/62/000/004/003/006 D291/D301

AUTHOR:

Benes, Jaroslav

TITLE:

Photographic dosimetry of X- and gamma radiation

PELIODICAL:

Jaderná energie, no. 4, 1962, 122 - 125

TEXT: The article generally lists the principles of film dosimetry for detecting X- and gamma radiation and evaluates advantages and disadvantages of this method. The application of film badges in protective dosimetry is studied by the Dozimetrické oddélení Ústavu jadertective dosimetry is studied by the Dozimetrické oddélení Ústavu jadertective dosimetry Department of the Nuclear Research Institute ného výzkumu ČSAV(Dosimetry Department of Academician F. Běhounek, and Czechoslovak AS) under the direction of Academician F. Běhounek, and lately also by the ÚVVVR. Film badges have certain advantages over other lately also by the ÚVVVR. Film badges have certain advantages over other detection instruments and are preferably used in protective dosimetry, since they are rather sensitive (0.1 r and even less), small and inexpensive, and also permit rough discrimination of individual radiation energies. However, they have also certain disadvantages, since the film material has to be prepared, loaded and processed, and continuous de-

Card 1/2

z/038/62/000/004/003/006 D291/D301

Photographic dosimetry of ...

tection and reading of instantaneous doses becomes thus imposible. For correct evaluation of film badges, used in protective dosimetry, it is recommended that each film emulsion be individually calibrated, and that films be used preferably in cases where X- and gamma sources have a certain, known energy spectrum. There are 5 figures and 9 references: 4 Soviet-bloc and 5 non-Soviet-bloc. The references to the English-language publications read as follows: W.L. McLaughlin - M. Ehrlich: Nucleonics 12 (1954), p. 34; R.B. Wilsey: Radiology 66 (1959), pp 406, 418. (Technical Editor: F. Eĕhourek).

ASSOCIATION:

Dozimetrické cddělení Ústavu jaderného výzkumu ČSAV (Dosimetry Department of the Nuclear Research Instatute, Czechoslovak AS)

Card 2/2

ACCESSICA NR: AP3CO3059	z/ocu,3/153/000/006/cu,25/cl,33
Author: Benes, I	73
TITLE: The influence of ferric chlopropylene	ride on the inhibited exidation of poly-
SOURCE: Chemicke zvestil, No. 6, 195	3, 425-433
induction period, deactivator, there is a stability of poly decreased by metal ions, whose infile a laboratory-prepared polypropylene tested for exidation stability in the commercially available inhibitors. The increase tion period. This is probably cause exides, and possibly by a simultaneous collection period.	propylene is increased by intioxidants; it is increased by intioxidants; it is increased by intioxidants; it is increased by commercial antioxidants was protected by commercial antioxidants was be presence of ferric chloride, inhibited by Ferris chloride does not increase the oxidate their concentration at the end of the inducted by a faster rate of decomposition of persons catalytic decomposition of polypropyleness of ferric chloride on the thermocxidate a phenolic antioxidant is best compensated
card 1/2	

by a reduct	R: AP3003059 ing agent, or time these n	ty a deacti	vator 11so a	producin synergi	g a stal stic eff	ole compl ect. Ox	ex with th	e iron;	
ASSOCIATIO	formulas, 3	stav makrom	plekul	arni che	mie, Brno	Resus	ch Institu	te for	
	lar Chemistry		ACQ:	22 Jul	63		ENCL:	∞	A. Ber
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HENES, Jaroslav

Preparation of thorium-234 without carrier. Jaderna energie 9 no.10:324-326 0 '63.

1. Radiologicka dozimetrie, Ustav jaderneho vyzkumu, Praha.

BENES, Jaroslav; KYRS, Miroslaw

Isolation of Go 137 from liquid radioactive fallout. Jaderna energie 9 no.9:295 Sto3.

1. Ustav jaderneho vyzkamu, Coskoslovenska akademie ved, Res u Prahy.

BENES, Jaroslav; KUPEC, Josef

Photographic desimetry of high doses of X and gamma radiation. Jaderna energie 10 no.1:20 Ja'64.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez.

BENES, Jaroslav; MATOUSKOVA, Jirina

Problem of evaluation of excessively irradiated film desimeters. Jaderna energie 10 nc.11:403-405 N 164.

1. Department of Radiological Dosimetry of the Institute of Nuclear Research of the Gzochoslovak Academy of Sciences, Reminear Prague.

4

CZECHO JLCVAKIA

BENES, J; VOBECKY, M

Institute of Nuclear Research, Czechoslovak Academy of Sciences, Rez near Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 11, November 1966, pp 4398-4464

"Precipitation and coprecipitation in the presence of EDTA. Part 1: Effect of the conditions on the precipitation of radioactive barium and stronium by the sulfate method."

BENES, Jaroslav, inz., CSc.

Experimental sections of forest road reinforcement by concrete belts. Les cas 9 no.2:127-144 F *163.

1. Lesnicka fakulta, Vysoka skola zemedelska, Brno.

BENES, Jaroslav

International transportation of goods. Zel dop tech 12 no.11:285-287 '64.

PHASE I BOOK EXPLOITATION CHECH/5651

Benes, Jirí, Engineer, Doctor.

- Statistická dynamika regulačních obvodů (Statistical Dynamics of Regulating Circuits) Prague, SNTL, 1961. 334 p. (Series: Teoretická knižnice inženýra) 3,400 copies printed.
- Reviewers: Milan Balda, Docent, Engineer, Candidate of Sciences, Václav Dupač, Candidate of Sciences, and Zdeněk Kotek, Docent, Engineer, Candidate of Sciences; Resp. Ed.: Zdeněk Tichý, Engineer; Tech. Ed.: Marie Králová; Managing Ed. for Literature on Theoretics, Chief Ed.: Vlastimil Chihák, Engineer.
- PURPOSE: This book is intended for electrical engineers, students in electrical engineering divisions of schools of higher education, and workers in research institutes.
- COVERAGE: The book is concerned with the application of purportedly new, progressive methods of statistical dynamics to the solution of various problems of automatic control. The following topics

Card 1/19

Statistical Dynamics of Regulating (Cont.)

0ZECH/5651

are discussed: the meaning, application, and basic concepts of statistical dynamics; methods of measurement in regulating circuits; measuring instruments; optimal design of regulating circuits according to statistical methods; and the use of statistical methods in radar, metallurgy, power systems, geologic survey, electrical measuring techniques, and servomechanisms. The book is based on material gathered by the Division of Electrical Engineering in the Technical School of Higher Education in Prague, particularly from the following courses: "Theory of Servomechanisms" (1955) and "Statistical Compensation" (1957-59), in the Department of High-Frequency Engineering, and "Statistical Dynamics" (1959-60), in the Department of Technical Measurements and Automation. The author thanks Vaclay Dupas, Candidate of Sciences, of the Department of Physics and Mathematics of Charles University, and A. Ktimkov of the Institute of Information Theory, Czechoslovak Academy of Sciences, for their help. There are 99 references: 51 Soviet, 34 English, 7 Czech, 6 French, and 1 German.

Card 2/19

16. 7000

5/044/62/000/008/065/073 C111/C333

AUTHOR:

Beneš, Jiři

TITLE:

 Λ numerical method for the calculation of the transition of an instationary process by a non-linear automatic servo-

system

PERIODICAL: Referativnyy zhurnál, Matematika, no. 8, 1962, 53,

abstract 8V278. ("Souhrn praci o automat. 1959", Praha,

1961, 125-147)

In several places of a servo-circuit with typically non-34 ar members one shall find out the dispersion and the average of a thastic process. One supposes that the characteristic quantities of ystem and the stochastic input-effect change slowly. In the calcuan one chooses the segments of the realization of the input-effect periodic and expanded in terms of Laguerre functions. The series coefficients c, are calculated by aid of a specially developed "orthogonal analyzator" with electro mechanical modulation of the Laguerre functions. In order to obtain the approximative spectral density of the input process S_{nn}(jω), one transforms the sum

Card 1/2

5 numerical method for the ... S/044/62/000/008/065/073

c, L, by the Fourier transformation.

The dispersion of the servo-quantity is expressed by the Parceval-

 $\frac{\overline{\varphi}^2}{\sum_{-\infty}} s_{nn}(j\omega) \cdot |c_{n\varphi}(j\omega)| d\omega$

where $G_{n\phi}$ (j ω) is the frequence curve of the linearized servo-system. For the calculation of the integral one uses the algorithm, newly developed by J. Nekolny. The non-linearities are statistically linearized. For the solution of the problem altogether one develops an iteration method. Calculation formulas, block-diagrams of the calculation algorithm and calculation examples are given which were carried out on the digital

[Abstracter's note: Complete translation.]

Card 2/2

BENES, Jiri, ins., dr.

Action plan for development of the innevator movement. Stroj vyr 11 no.8:377-378 Ag 163.

l. Vedecky tajemnik sekce strojnictvi, Ceskoslovenska veddeckotechnicka spolecnost.

BENES, Jiri

Innovators' discussion. Pod org 17 no.4:145-147 Ap '63.

BENES, Jiri, inz., CSc.

Effect of ferric chloride on inhibited polypropylane oxidation. Chem avesti 17 no.6:425-433 163.

1. Vyskumny ustav malu omolekularni chemie, Brno, Tkalcovska 2.

BENES, Jiri, inz. dr

Ways for raising the quality and effectiveness of improvement suggestions. Podn org 18 no.5:223-226 My '64.

1. Research Institute of the Machine Industry Technology and Organization.

BENES, Jiri, inz. CSc. (Brno, Namesti Svobody 12); SMOLKA, Karel, inz, (Brno 12, Dobrovskeho 27)

Acid catalysis of bis (2-chloroethyl) sulfide ionization. Chem zvesti 18 no.42259-265 *64

1. Antonin Zapotocky Military Academy, Brno.

BENES, Jiri, inz., C.Sc. (Brno 2, Namesti Svohody 12)

Role of water in the substitution reactions of bis(2-chlorethyl) sulfide. Chem zvesti 18 no.11:852-863 '64.

1. Chair of Organic Chemistry, Higher School of Chemical Technology, Pardubice.

BENES, Jiri; KOVAR, Milan; MIKULASEK, Jiri

Recording adapter to the ATIT automatic situation apparatus. Chem listy 58 no. 7 819-822 Jl 164.

1. Antonin Zapotocky Military Academy, Penc.

BENES, Josef, ins.

iji

. 100

Influence of the metallurgic industry development on the education of operational technicians in secondary industrial schools. Hut listy 18 no.7:525-526 Jl '63.

1. Vyskumny ustav odborneho skolstvi, Praha.

June, the month of pure water. Vodni hosp 16 r . Fairl 164.

1. Ministry of Agriculture, Forestry and Cuser and Cuser and Management.

BREJCHA, Miloslav; BERGSTEIKIVA, Vlasta; BEHES, Josef

Effect of certain antibiotics on post-irradiation syndromes in mice and rats. Cesh. onkol. 3 no.4:324-332 1956.

1. Staatliches Fakultatskrannhenhaus, Praha.
(RADIATIONS, effects,
 in mice & rats, eff. of antibiotics on reactivity (Ger))
(ANTIBIOTICS, effects,
 on radiation eff. in mice & rats (Ger))

BENES, Josef; SAFRATA, Stanislav

New results of the resourch on barium titante. Poktoky fys pev lat 3: 7-43 156.

1. Katedra atomistiky a fysiky pevnych latek, Karlova universita, Praha (for Benes) 2. Fysikalni ustav, Ceskoslovenska akademie ved, Praha (for Safrata).

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